

# **SPELLING CORRECTION SYSTEM AND METHOD FOR PHRASAL STRINGS USING DICTIONARY LOOPING**

## **Abstract of Disclosure**

A spelling correction system and method for phrasal strings using a dictionary looping technique. The method of the present invention includes spelling correction of an input phrasal string by segmenting the string into a plurality of different segmentations, comparing each segmentation to dictionary entries using the dictionary looping technique, assigning a cost to each segmentation, and determining an output string by finding the segmentation having the lowest cost. The dictionary looping technique determines compares each segmentation to dictionary entries by performing a looping search through a phrasal dictionary data structure in a looping manner whereby a number of different searches are performed. Dictionary looping allows the dictionary to be compact because the dictionary need not include all potential combinations of all possible phrases that could be encountered. The present invention also includes a phrasal spelling correction system and a dynamic dictionary that uses the above-described method.